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WE CLAIM:

- A method for an operator to monitor access network services available to an end device, where the end device communicates in a heterogeneous network environment, the method comprising:
- a) instructing the end device to determine available access networks located with the heterogeneous network environment;
- b) collecting access network information from at least one node within the heterogeneous network; and
 - c) making the access network information available to the operator.
 - 2. The method of claim 1, further including:
- d) providing the access network to the end device in accordance with the collected information.
 - 3. The method of claim 1, wherein b) comprises generating a probe.
 - The method of claim 3 wherein the probe comprises a tracer packet.
- The method of claim 4 wherein the tracer packet includes a format substantially similar to an application data Internet protocol (IP) packet with the addition of heterogeneous access network tracking (HANT) data.
 - 6. The method of claim 3 wherein the probe is initiated automatically.
 - 7. The method of claim 6 wherein the probe occurs periodically.
- The method of claim 3 wherein the probe is initiated upon the occurrence of an event.
- The method of claim 8 wherein the event comprises a bandwidth of the end device being below a determined level.

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- The method of claim 3 wherein the probe is initiated by a user of the end device.
 - The method of claim 3, wherein b) comprises:
 extracting the probe from the datastream;
 storing access network information in the probe; and
 returning the probe to the datastream.
- 12. The method of claim 1, wherein a Hyper Operator provides the access network to the end device.
- The method of claim 12 wherein the Hyper Operator determines available access networks from the collected information.
- 14. The method of claim 1 further including a probing server, wherein the probing server sends instructions to the end device to control probing.
- 15. A network system for an operator to monitor access network services available to an end device, where the end device communicates in a heterogeneous network environment, the system comprising:
- a probing server to instruct the end device to determine available access networks located with the heterogeneous network environment;
- a probe sent by the end device upon instruction from the probing server, wherein the probe collects access network information from at least one node within the heterogeneous network; and
 - a database to store the access network information.
- 16. The system of claim 15 wherein the access network is provided to the end device in accordance with the collected information.
- The system of claim 15 wherein the probe comprises a tracer packet.

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- 18. The system of claim 17 wherein the tracer packet includes a format substantially similar to an application data Internet protocol (IP) packet with the addition of heterogeneous access network tracking (HANT) data.
 - 19. The system of claim 15 wherein the probe is initiated automatically.
 - 20. The system of claim 19 wherein the probe occurs periodically.
- 21. The system of claim 15 wherein the probe is initiated upon the occurrence of an event.
- The system of claim 21 wherein the event comprises a bandwidth of the end device being below a determined level.
- 23. The system of claim 15 wherein the probe is initiated by a user of the end device.
- 24. The system of claim 15 wherein the probe is extracted from the datastream, access network information is stored in the probe, and then the probe is returned to the datastream.
- 25. The system of claim 15 further including a Hyper Operator to provide the access network to the end device.
- 26. The system of claim 25 wherein the Hyper Operator determines available access networks from the collected information.
- 27. The system of claim 15 wherein the probing server sends instructions to the end device to control probing.

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